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# ABSTRACT

## DATA ANALYSIS AND DEVICE OPERATION BASED ON DATA ASSOCIATED WITH WORDS

Status indicated by sensor data of a device, etc., may be analyzed based on an expression in a natural language, and the device, etc., may be operated based on an instruction in a natural language, by associating data with a word. Data groups obtained by classifying input as received from a sensor or after processing the sensor input, are stored in a database and a word is attached to each of the data groups. A characteristic is extracted from the sensor input by a characteristic extractor unit, and then the sensor input is classified by a characteristic comparison/classification unit using the database. If the sensor input does not belong to any of the data groups in the database, the sensor input is temporarily stored in another database without an attached word. Subsequently, a word is attached to the classified data group(s) in the other database by a word provision unit, and the data groups are stored in the database that includes attached words.

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